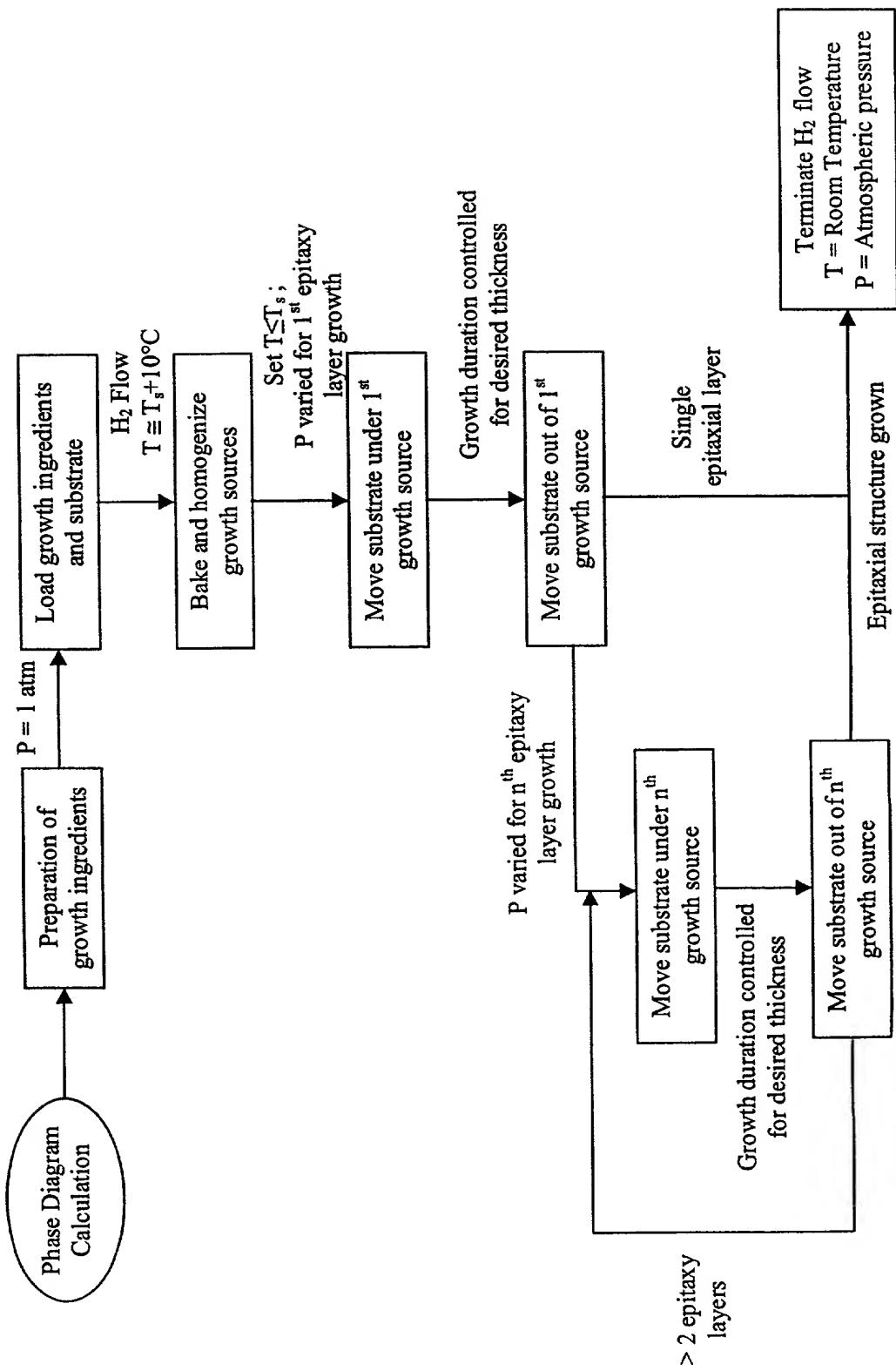


FIGURE 1

Growth of multiple non-compositional-graded layers



Growth of compositional-graded layer

FIGURE 2
Flowchart of the growth of a compositional-graded layer

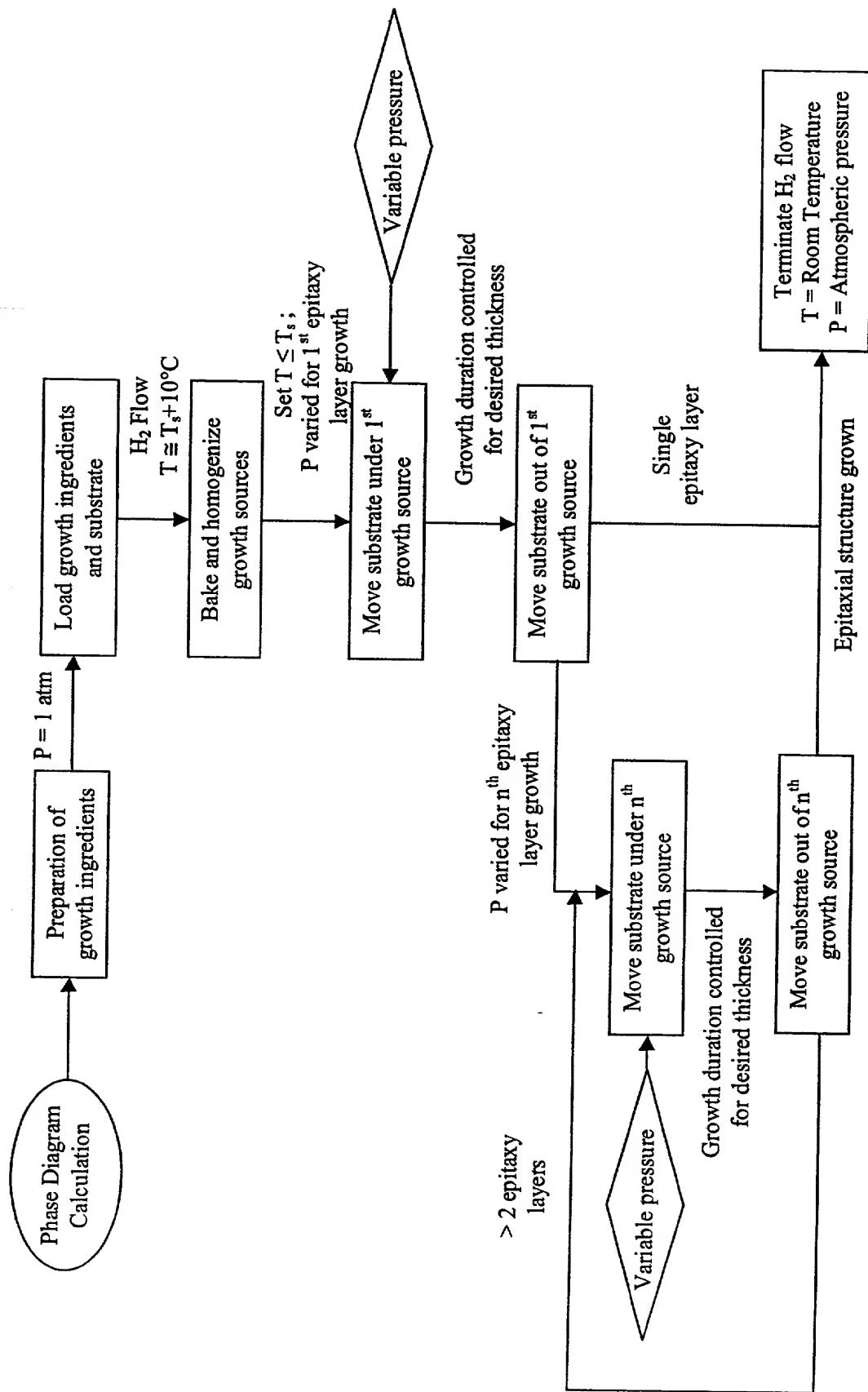


FIGURE 3.2 Block diagram of furnace system

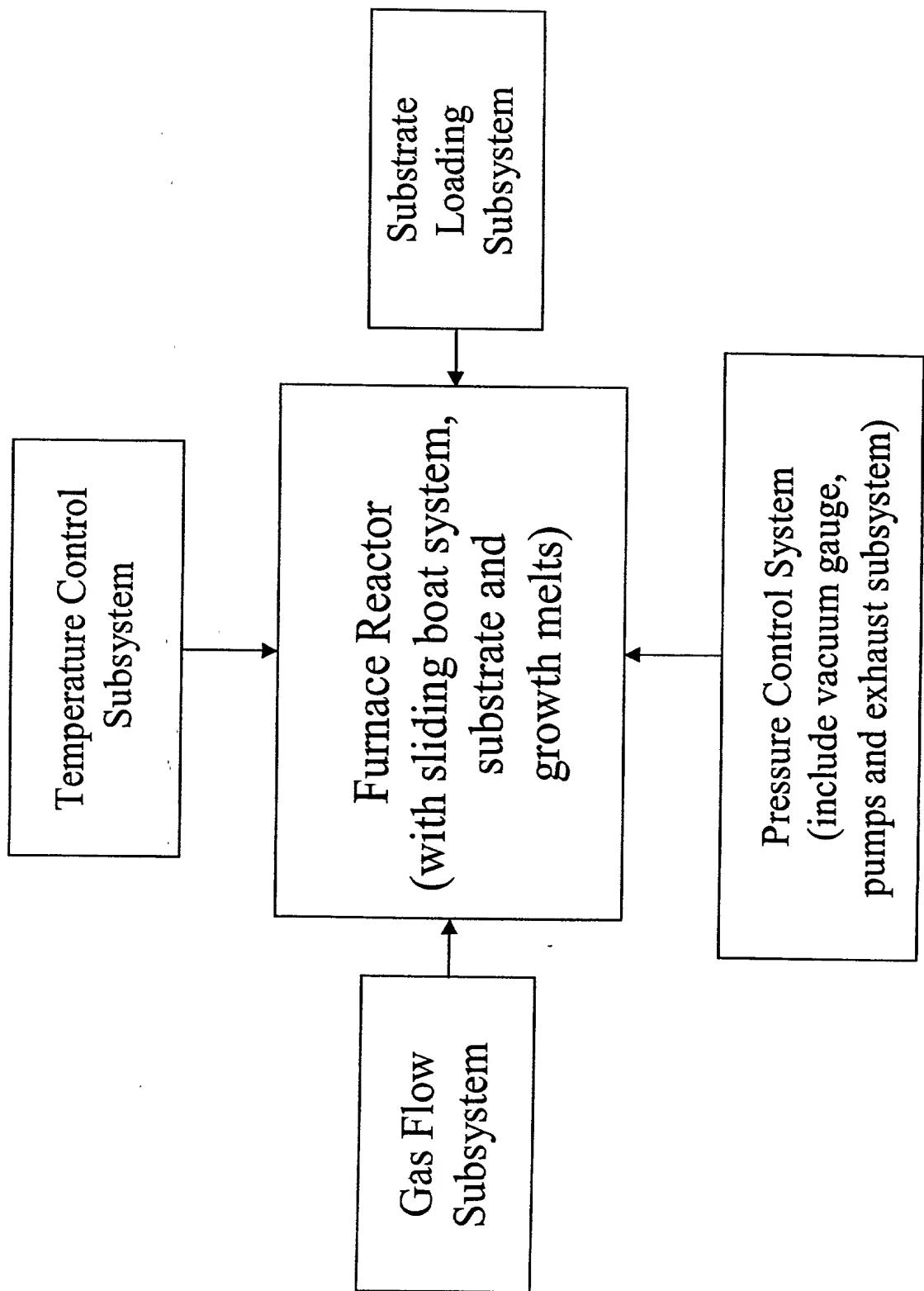
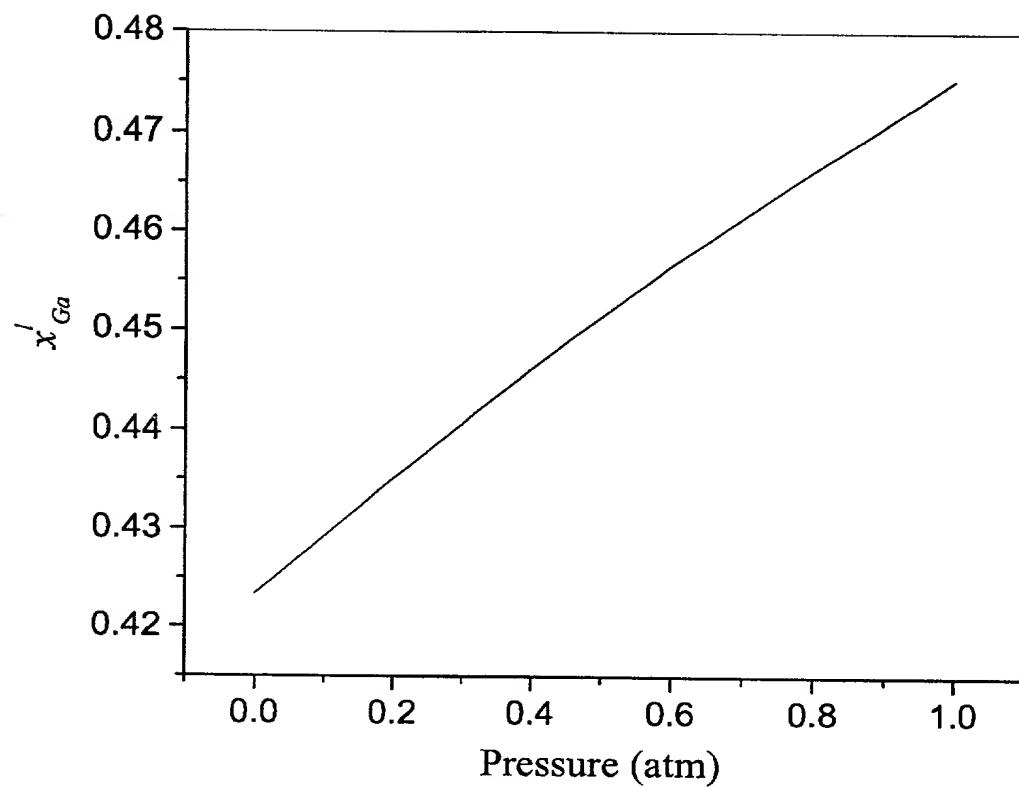
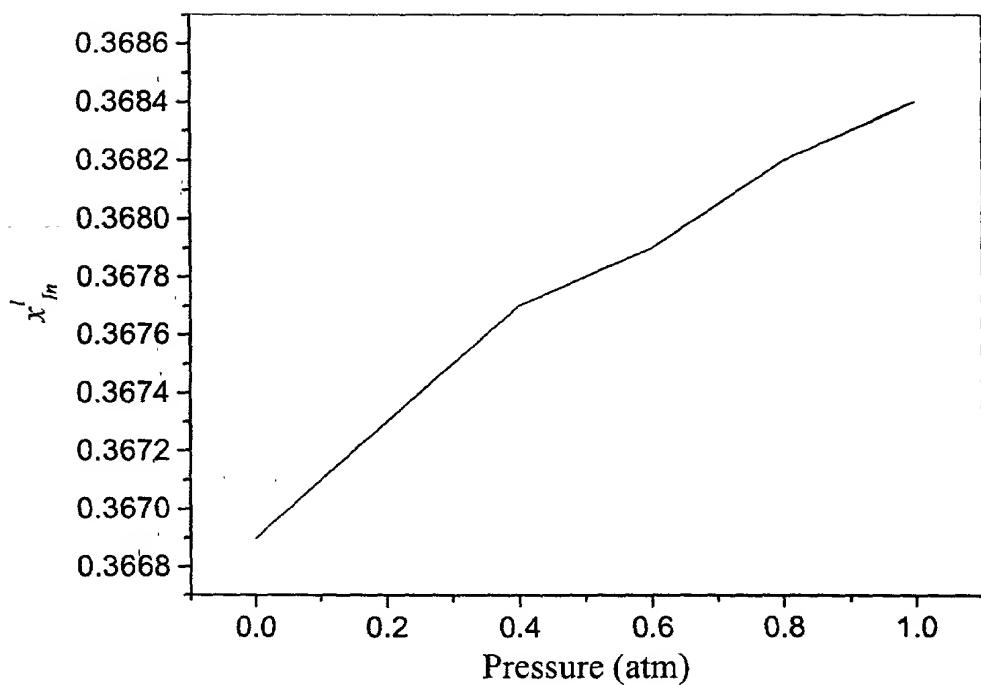


FIGURE 4



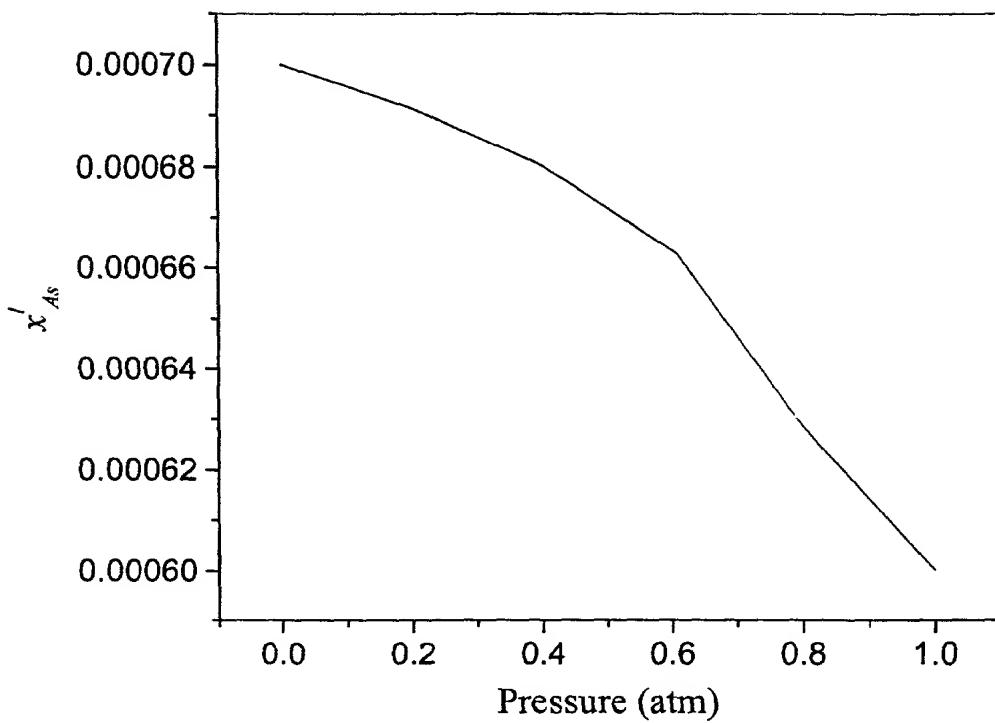
Atomic fraction x'_Ga in melt for $In_{0.1}Ga_{0.9}As_{0.087}Sb_{0.913}$ growth on
GaSb (100) substrate at 550 °C as a function of pressure.

FIGURE 5



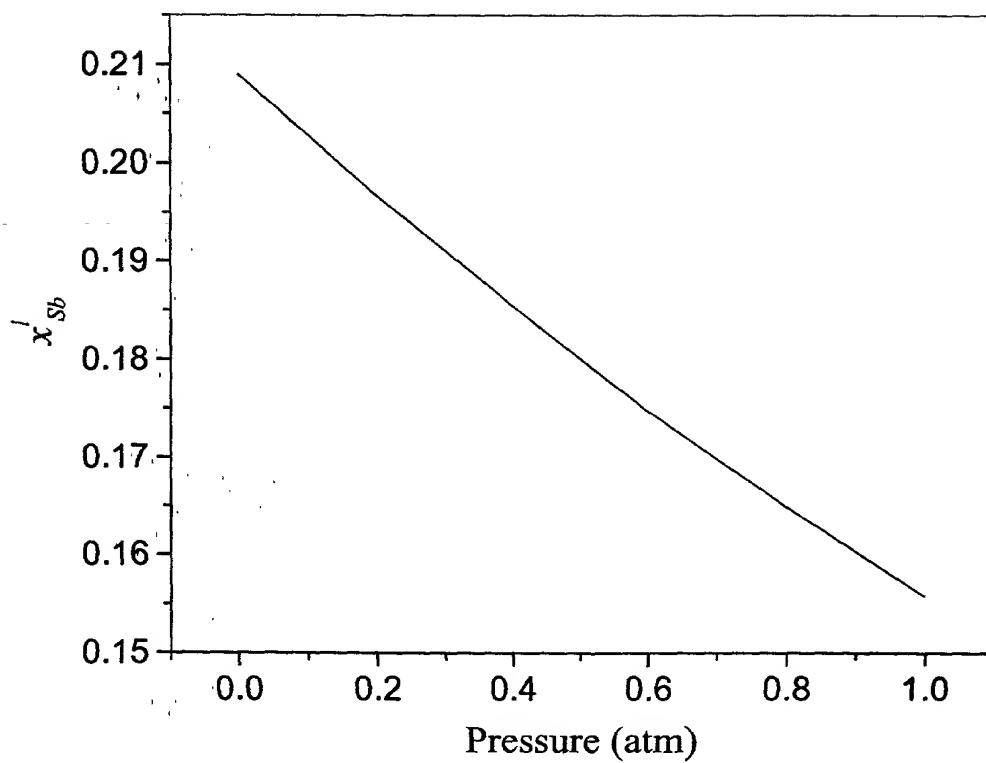
Atomic fraction x'_{In} in melt for $In_{0.1}Ga_{0.9}As_{0.087}Sb_{0.913}$ growth on
GaSb (100) substrate at 550 °C as a function of pressure.

FIGURE 6



Atomic fraction x'_{As} in melt for $In_{0.1}Ga_{0.9}As_{0.087}Sb_{0.913}$ growth on
GaSb (100) substrate at 550 °C as a function of pressure.

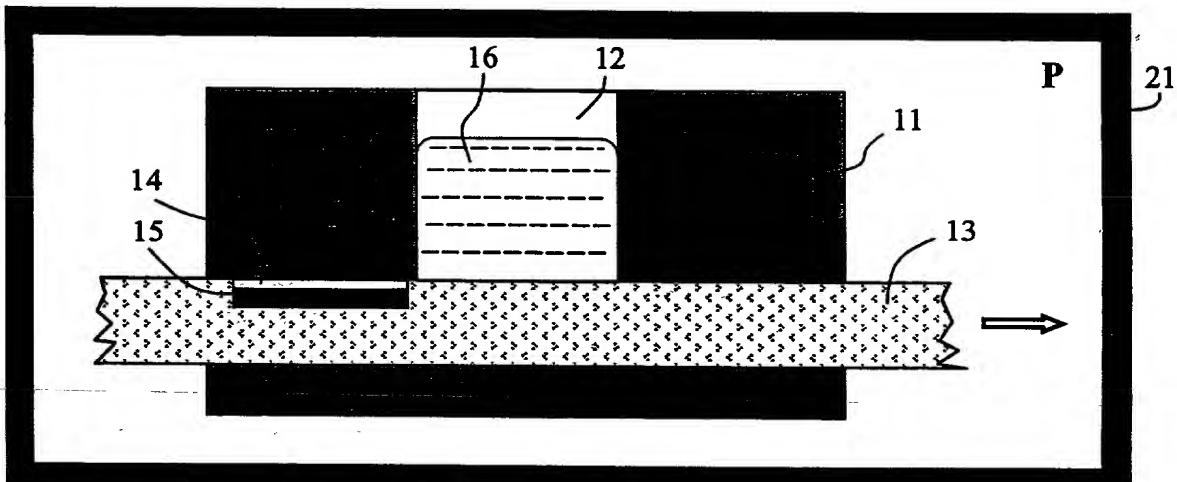
FIGURE 7



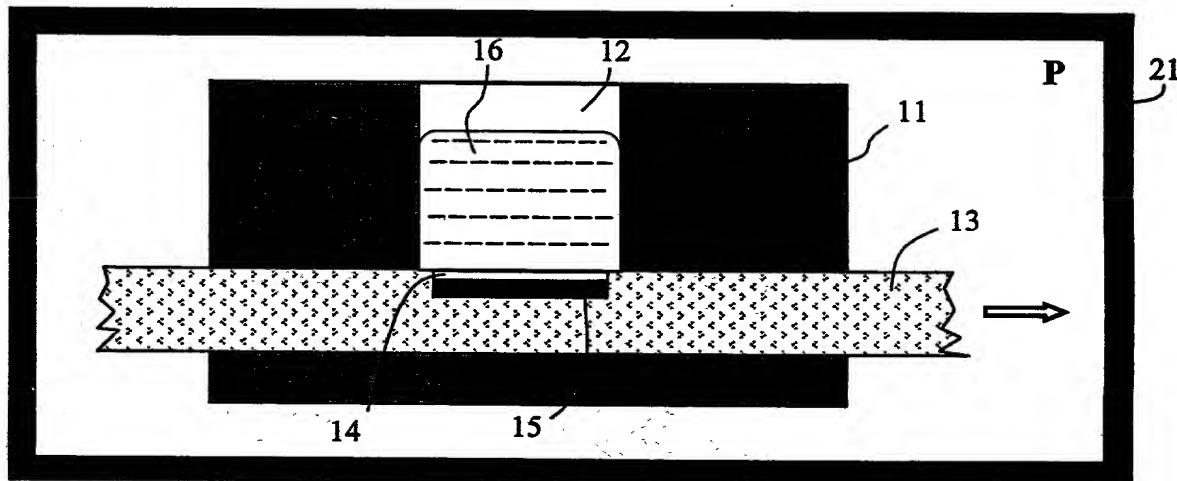
Atomic fraction x'_{Sb} in melt for $\text{In}_{0.1}\text{Ga}_{0.9}\text{As}_{0.087}\text{Sb}_{0.913}$ growth on
GaSb (100) substrate at 550 °C as a function of pressure.

FIGURE 8

(a)



(b)



(c)

